	Н	ydrophobic	^	Hydrophilic 1 2
		-2 -1	0	
_			M	
1	0.00		M	
2	0.00		H	
3	-0.15		R	
4	-0.29	===	L	
5	-0.71	======	Ι	
6	-1.38	=======================================	F	
7	-1.49	=======================================	V	
8	-1.61	=======================================	Y	
9	-1.47	=============	$\mathbf{T}$	
10	-1.30	=============	L	
11	-0.88	=======	I	
12	-1.23	=========	С	
13	-1.10	=========	А	
	-0.75	=======================================	N	
14		=======	F	
15	-0.75			
16	-0.17	==	_	
17	0.30		S	===
18	0.65		С	======
19	0.87		R	=======
20	0.73		D	======
21	0.83		$\mathbf{T}$	=======
22	0.33		S	===
23	-0.13	=	Α	
24	-0.02	4	T	
25	-0.15	· =	P	
26	-0.02		Q	
27	-0.25	===	_	
	0.25		Ā	
28			S	
29	0.13	==		
30	-0.22	<del></del>		====
31	0.37			
32	0.35		A	
33	0.57		Ъ	
34	0.10		R	
35	-0.12	=	N	
36	0.68		Α	· ======
37	0.68		N	======
38	1.15		L	] =========
39	1.73		R	2 ===========
40	1.75		R	\
41	2.08		D	) ============
42	1.50		E	3 ==========
43	0.70		_	- S ======
	0.70			V =
44				· - I =
45	0.13			
46	-0.22		L	
47	-0.63	=====		
48	-0.05		, D	
49	0.75			; =======
50	1.32		Y	<i>[</i> =========
51	1.32		R	<pre>&lt; ====================================</pre>
52	1.55		R	<pre>? ====================================</pre>
53	1.63		D	) ==========

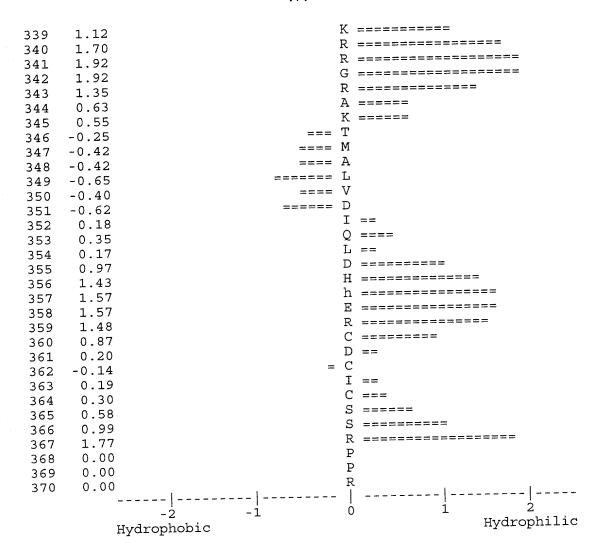
```
54
     1.17
                                     E ========
 55
     0.42
                                     T ====
 56
     0.42
                                      I ====
 57
    -0.08
                                   = 0
 58
     0.02
                                     V
 59
     0.32
                                     K ===
                                   = G
 60
    -0.10
 61
                                   = N
    -0.10
    -0.57
                              ===== G
 62
 63
    -0.52
                               ==== Y
                              ===== V
 64
    -0.55
 65
    -0.05
                                     Q
    -0.08
                                   = S
 66
 67
     0.17
                                     P ==
 68
     0.17
                                     R ==
 69
     0.17
                                     F ==
 70
     0.18
                                     P ==
    -0.32
 71
                                 === N
 72
    0.60
                                     S =====
73
    0.63
                                     y =====
74
    0.30
                                     P ===
75
    -0.05
76
    -0.37
                                ==== N
77
    -0.43
                                ==== L
78
    -1.50
79
    -1.03
80
    -1.03
81
     -0.82
                            ====== W
82
    -0.47
                               ===== R
    -0.37
83
                                ==== L
84
    0.70
                                     H ======
85
     0.23
                                     S ==
86
     0.47
                                     0 =====
87
                                     E ========
     1.05
88
     0.70
                                     N ======
89
    0.70
                                     T ======
90
   -0.10
                                   = R
 91
    -0.38
 92
    -0.73
93
    -0.73
                                ==== V
 94
    -0.40
 95
    -0.40
                                ==== F
96
    -0.52
                               ==== D
97
    -0.27
                                 ===N
    -0.15
98
                                   = 0
99
     -0.15
                                   = F
100
     0.32
                                     G ===
101
     0.20
                                     L ==
102
     1.12
                                     E =======
      1.15
103
      1.95
104
     1.15
105
106
     0.48
107
     1.07
                                     D =======
108
     0.18
                                     I ==
109
    0.65
                                     C =====
110 -0.27
                                 === R
```

```
-0.22
                                    == Y
111
                                       D =====
112
     0.45
                                   === F
113
     -0.30
                                       V =====
      0.58
114
                                       E =====
115
      0.58
      0.70
                                       V ======
116
                                       E =======
      1.00
117
      1.00
118
119
      1.18
      0.73
120
      0.17
                                       E ==
121
      0.17
                                       T ==
122
     -0.18
                                    == S
123
                                    == T
     -0.18
124
                                     = I
125
     -0.12
                                       I ===
126
     0.33
                                    == R
127
     -0.17
                                       G
     -0.03
128
                                       R ===
     0.27
129
                                   === W
     -0.32
130
                                       C ==
131
     0.18
                                       G ==
132
      0.18
      0.50
133
      0.67
134
      0.67
135
      1.25
136
137
      0.45
                                       P =====
138
      0.45
                                       R =======
139
      0.75
140
      1.25
141
      1.18
142
      0.72
                                       S ======
                                       R =======
143
      1.05
                                       T ===
      0.25
144
                                       N ======
145
      0.70
                                     = Q
146
     -0.10
     -0.10
                                     = I
147
                                 ===== K
148
     -0.55
149
     -0.08
150
      0.27
                                       F ===
151
      0.27
152
      1.07
                                       S ======
      0.75
153
      0.75
                                       D ======
154
                                       D
155
      0.00
     -0.13
                                     = Y
156
     -0.13
                                     = F
157
158
     -0.63
                                ===== V
159
     -0.25
                                   ===A
     -0.25
                                   === K
160
                                       P =====
161
     0.50
     0.28
162
     -0.60
163
164
    -0.98
    -0.93
165
166
     -0.82
    -1.62
                      ============== Y
167
```

168	-0.82	=======	S	
169	0.07		L	=
170	0.03		L	
171	0.02		Ē	
172				
	0.32		_	===
173	0.53		F	====
174	-0.05	=	Q	
175	-0.63	=====	P	
176	-0.17	***	Α	
177	0.30		Α	===
178	0.23		Α	==
179	0.35		S	====
180	0.27		E	===
181	0.85		T	
			_	
182	0.85		N	=======
183	0.10		W	
184	0.10			=
185	0.12		S	=
186	0.33		V	===
187	-0.47	=====	Т	
188	-1.08	=========	S	
189	-0.83	=======	S	
190	-1.02	=======	Ī	
191	-1.02	=======================================	s	
			G	
192	-1.45		_	
193	-1.12		V	
194	-0.50	====		
195	-0.50	with data with mine	Y	
196	-0.20	==	N	
197	-0.50	=====	S	
198	-0.18	===	Ρ	
199	0.28		S	===
200	0.23		V	<u>=</u> ==
201	0.17		Т	==
202	-0.18	==	D	
203	-0.23		P	
204	-0.25		T	
	-0.25	===		
205				
206	-0.33	===	I	
207	-0.57	=====		
208	0.23			==
209	1.03			=======
210	1.62		L	
211	0.82		D	======
212	0.82		K	=======
213	1.62		K	
214	0.70		Ι	======
215	0.70		_	
216	0.13			=
217	0.13			_ ==
			_	
218	0.77			=======
219	0.77			
220	0.88		-	=======
221	0.08		Ε	=
222	0.65		D	======
223	0.52		L	=====
224	-0.40	====	L	

225	-0.87		K	
226	-0.57	=====	v	
		<del></del>	_	
227	0.23		F,	==
228	-0.22	===	N	
229	0.00		Р	
			_	
230	0.45		E	
231	0.92		S	
232	1.42		7.7	========
233	0.62		Q	
234	1.07		Ε	========
235	1.27		D	=========
			-	
	1.02		L	=======
237	0.13		Ε	=
238	-0.67	======	N	
		· · · · · · · · · · · · · · · · · · ·		
239	0.13			=
240	-0.43	====	Y	
241	-0.47	=====	Τ.	
	0.25			===
243	0.65		$\mathbf{T}$	======
244	1.45		P	==========
	0.95		_	
245				=======
246	1.52		У	
247	1.57		Ŕ	
	1.08		_	========
249	0.98		R	========
250	0.98		S	========
251	1.48		**	
			-	
	1.48		Н	===========
253	1.48		D	==========
254	1.97		R	
255	1.80			
256	1.80		S	=======================================
257	1.00		K	========
258	1.00			=======
			-	
259	1.45		D	=======================================
260	0.65		L	======
261	0.93		D	======
			_	
262	0.93		R	========
263	1.73		L	=======================================
264	1.15		N	========
265	1.15			
				========
266	1.95		D	=======================================
267	1.93		Α	
268	1.48		V	=========
269	0.82		R	
270	0.83		У	=======
271	0.33		_	===
272	0.33		_	
273	0.35		Т	====
274	0.32		Р	===
275	0.53			
276	0.35		Ν	===
277	0.38		У	====
278	-0.42	====	-	
		<b>= = =</b>		
279	0.05			=
280	0.53		N	=====
281	0.98		Т	========
	~.,		_	· · · · · · · · · · · · · · · · · · ·

282	0.93		R	======
283	1.40		E	===========
284	1.40			=======================================
285	0.82			=======
286	0.35			====
287	-0.40		L	
	-0.35	====		
289	-1.27		N	
290	-1.38		v	
291	-1.30		v	
292	-0.83	=======		
293	-0.75		F	
294	-0.80		P	
295	-0.68	======		
296	-0.52	====		
297	-0.48	====	L	
298	-0.48	====	L	
299	-0.48		V	
300	-0.18	==		
301	0.12		_	=
302	0.40		C	====
303	0.20		G	==
304	-0.30	===		
305	-0.30	===		
306	-0.87	========	С	
307	-0.93	=======	G	
308	-1.22		С	
309	-1.02	==========	g	
310	-1.58	=========	$\tilde{\mathtt{T}}$	
311	-0.92	========	V	
312	-0.30	===	Ν	
313	-0.40	====	M	
314	-0.22	===	R	
315	-0.42	====	S	
316	0.18		C	==
317	-0.27	===	$\mathbf{T}$	
318	-0.32	the tree tree	С	
319	0.35			====
320	0.35		S	====
321	0.27		G	===
322	0.73			======
323				========
324	1.20		-	=========
325 326	0.62			=====
327	1.18			========
328	1.18 0.38			========
329				====
330	-0.08 -0.52	=	E	
331	0.07	====		_
332	-0.43		_	=
332 333		====		
334	-0.18 0.03	==	F	
335	-0.30		E P	
336	0.62	===		=====
337	0.62			=====
338	1.12			
220	1.12		Ι	========



**FIGURE**